

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/012446

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl' C12N15/00, C07K14/47, C07K16/18, C12Q1/68, G01N33/53, G01N33/574

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' C12N15/00, C07K14/47, C07K16/18, C12Q1/68, G01N33/53, G01N33/574

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Genbank/EMBL/DDBJ/GeneSeq, SwissProt/PIR/Geneseq,
CAPLUS/MEDLINE/BIOSIS/WPIDS (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	TSUJIKAWA, K. et al., "Expression and functional analysis of PCA-1 (hABH3), a new DNA and RNA alkylation damage repair enzyme", Program and Abstracts, The 26th Annual Meeting of the Molecular Biology Society of Japan, December 10-13, 2003 Kobe, Japan (publication date 25 November, 2003 (25.11.03)), page 525, Abst. No.04I-2 (oral disclosure on 13 December, 2003 (13.12.03))	1-19

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"U" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
30 September, 2004 (30.09.04)Date of mailing of the international search report
19 October, 2004 (19.10.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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Form PCT/ISA/210 (second sheet) (January 2004)

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	TSUJIKAWA, K. et al., "Molecular cloning and expression analysis of DNA and RNA demethylase PCA-1 (hABH3)", Proceedings Sixty-Second Annual Meeting of the Japanese Cancer Association September 25-27, 2003, Nagoya (publication date 25 August, 2003 (25.08.03)), pages 387 to 388, Abst.No.2373-PA (oral disclosure on 26 September, 2003 (26.09.03))	1-19
Y	Duncan, T. et al., "Reversal of DNA alkylation damage by two human dioxygenases", Proc.Natl. Acad.Sci.USA., (2002), Vol.99, No.26, pages 16660 to 16665.	1-19
Y	Aas Per Arne et al., "Human and bacterial oxidative demethylases repair alkylation damage in both RNA and DNA", Nature, 20 February, 2003 (20.02.03), Vol.421, No.6925, pages 859 to 863	1-19
Y	WO 02/055700 A2 (Chiron Corp.), 18 July, 2002 (18.07.02), SEQ ID NOS 720, 721, 937, 941; table 2; Claims & CA 2430794 A & WO 03/050236 A2 & US 2003/0215803 A1 & EP 1379651 A	1-19